



PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)			Complete If Known		
			Application Number	10/824688	
			Filing Date	April 14, 2004	
			First Named Inventor	Christopher J. Sewall	
			Art Unit	Not Yet Assigned 1623	
			Examiner Name	Not Yet Assigned White	
Sheet	1	of	2	Attorney Docket Number	10884-00025-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
SW		3,962,482	6/8/1976	Uniroyal, Ltd.	
SW		3,956,173	5/11/1976	Hercules Incorporated	
SW		4,443,486	4/17/1984	FMC Corporation	
SW		4,096,327	6/20/1978	FMC Corporation	
SW		5,002,934	3/26/1991	Norton et al	
SW		5,051,304	9/24/1991	Societe Anonyme	
SW		5,264,223	11/23/1993	Japan Elanco Company, Ltd.	
SW		5,614,217	3/25/1997	R.P. Scherer Corporation	
SW		5,342,626	8/30/1994	Merck & Co., Inc.	
SW		5,431,917	7/11/1995	Japan Elanco Company, Ltd.	
SW		5,756,123	5/26/1998	Japan Elanco Co., Ltd.	
SW		5,620,757	4/15/1997	Mitsubishi Rayon Co., Ltd.	
SW		5,342,626	8/30/1994	Merck & Co., Inc.	
SW		5,089,307	2/18/1992	Mitsubishi Rayon Co., Ltd.	
SW		5,569,466	10/29/1996	R. P. Scherer Corporation	
SW		5,820,259	10/13/1998	Q-Jet DSI, Inc.	
SW		6,375,981	4/23/2002	A. E. Staley Manufacturing Co.	
SW		6,099,876	8/8/2000	Yissum Research Development Co. of the Hebrew University	
SW		6,214,376	4/10/2001	Banner Pharmacaps, Inc.	
SW		6,326,028	12/4/2001	Monsanto Company	
SW		6,331,205	12/18/2001	Laurence Paris	
SW		6,340,473	1/22/2002	R.P. Scherer Technologies, Inc.	
SW		6,582,727	6/24/2003	R.P. Scherer Technologies, Inc.	
SW		6,375,981	4/23/2002	A. E. Staley Manufacturing Co.	
SW		6,635,275	10/21/2003	Warner-Lambert Company	
SW		2002/0122822	9/5/2002	Bunick et al	
SW		2003/0211146	11/13/2003	Scott et al	
SW		2003/0084641	5/8/2003	Tanner et al	
SW		2003/0085487	5/5/2003	Tanner et al	
SW		2003/0138482	7/24/2003	Fonkwe et al	
SW		2004/0052839	3/18/2004	Archibald et al	

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Examiner Initials*	Cite No.	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	†
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
SW		JP 3-53873	1991	Kotobuki Academy		X
SW		JP 3-12231	1991	Kotobuki Academy		X
SW		JP 62-186754	1987	Unicolloid Inc.		X
SW		JP 60-55039	1985			
SW		JP 63-164858	1988	Unicolloid Co. Ltd.		X
SW		WO 00/36930	06/29/2000	The Monsanto Company		
SW		WO 01/92401	12/6/2001	A.E. Staley Manufacturing Co.		
SW		WO 01/92400	12/6/2001	A.E. Staley Manufacturing Co.		
SW		WO 03/009832	2/6/2003	R.P. Scherer Holdings Pty Ltd		

Examiner Signature	<i>E. White</i>	Date Considered	2/27/2006
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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>W</i>		Eleya, et al., "Rheology of k-carrageenan and B-lactoglobulin mixed gels", Food Hydrocolloids, vol. 14, pages 29-40, 2000.	
<i>W</i>		Falshaw et al., "Structure and performance of commercial kappa-2 carrageenan extracts I. Structure analysis", Food Hydrocolloids, vol. 15, pages 441-452; 2001.	
<i>W</i>		Villanueva et al., "Structure and functional performance of gigartinacean kappa-iota hybrid carrageenan and solieriacean kappa-iota carrageenan blends", Food Hydrocolloids. Vol. 18, pages 283-292; 2004.	
<i>W</i>		Bixler et al., "Kappa-2 carrageenan: structure and performance of commercial extracts II. Performance in two simulated dairy application", Food Hydrocolloids, vol. 15, pages 619-630; 2001.	
<i>W</i>		van de Velde et al., "On the structure of k/i-hybrid carrageenans", Carbohydrate Research, vol. 331, pages 271-283, 2001.	
<i>W</i>		Gums and Stabilisers for the Food Industry; "Liquid Core Hydrocolloid-Oil Capsules"; pages 324-332.	

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
<i>JS</i>		JP 60-55039	03-29-1985	Mitsubishi Acetate Co., Ltd.		X

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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/824688-Conf. #8069
				Filing Date	April 14, 2004
				First Named Inventor	Christopher J. Sewall
				Art Unit	NTA- 1623
				Examiner Name	Not Yet Assigned White
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		Number-Kind Code ² (if known)			
SW	AA	US-2004/0180083	09-16-2004	Shiraishi et al	

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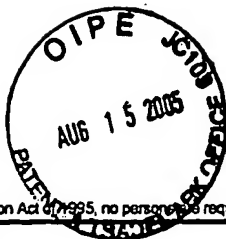
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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PTO/SB/08a/b (07-05)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/824688-Conf. #8069
				Filing Date	April 14, 2004
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				Art Unit	N/A 1623
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		Number-Kind Code ² (if known)			
BA	AA*	US-2005/0037064	02-17-2005	Basquin et al.	
AB		US 6,340,473	01-22-2002	Tanner et al.	
AC		US 6,582,727	06-24-2003	Tanner et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ²
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
BA	BA	JP-01-143827	06-06-1989	Fuji Capsule K.K.		
BB	BB	JP-05-43471	02-23-1993	Alfa Wasserman Spa		
BC	BC	JP-09-25228	01-28-1997	Eisai Co., Ltd.		
BD	BD	JP-2001-39863	02-13-2001	Fuji Oil Co., Ltd.		
BE	BE	JP-2003-299714	10-21-2003	Fuji Capsule KK		
BF	BF	JP-2003-504326	02-04-2003	R. P. Scherer Technologies, Inc.		See BK
BG	BG	JP-2004-167084	06-17-2004	Ina Food KK		
BH	BH	JP-2005-112849	04-28-2005	Fuji Capsule KK		
BI	BI	JP-2005-508359	03-31-2005	Innogen AG		
BJ	BJ	JP-2005-519255	05-12-2005	Ulice and Pierre Fabre Medicament		See AA
BK	BK	WO-01/03677	01-18-2001	R. P. Scherer Technologies, Inc.		
BL	BL	WO-03/035044	05-01-2003	Innogen AG		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. * CITE NO.: Those application(s) which are marked with an single asterisk (*) next to the Cite No. are not supplied (under 37 CFR 1.98(e)(2)(iii)) because that application was filed after June 30, 2003 or is available in the IFW. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

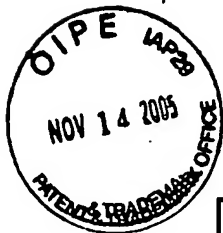
NON PATENT LITERATURE DOCUMENTS

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CA	CA	JP01-143827 - English Abstract (Micropatent) and partial English translation	
CB	CB	JP05-43471 - English Abstract (Micropatent) and partial English translation	
CC	CC	JP09-25228 - English Abstract (Micropatent) and partial English translation	
CD	CD	JP2001-39863 - English Abstract (Micropatent) and partial English translation	
CE	CE	JP2003-299714 - English Abstract (Micropatent) and partial English translation	
CF	CF	JP2004-167084 - English Abstract (Micropatent) and partial English translation	
CG	CG	JP2005-112849 - partial English translation	
CH	CH	JP2005-508359 - partial English translation	

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		Number-Kind Code ² (if known)			
SA	AA	2,802,000	8/6/1957	Caldwell et al.	
	AB	2,813,093	11/12/1957	Caldwell et al.	
	AC	2,825,727	3/4/1958	C. G. Caldwell	
	AD	2,876,217	3/3/1959	E. F. Paschall	
	AE	3,058,827	10/16/1962	J. L. Graham	
	AF	3,094,517	6/18/1963	N. F. Stanley	
	AG	3,176,003	3/30/1965	D. J. Stancioff	
	AH	3,329,509	7/4/1967	A. Julius	
	AI	3,378,546	4/16/1968	T. Tsuzuki	
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	AL	3,607,394	9/21/1971	F. J. Germino et al.	
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	AP	4,129,134	12/12/1978	Hind et al.	
	AQ	4,231,803	11/4/1980	Bovier et al.	
	AR	4,276,320	6/30/1981	A. Moirano	
	AS	4,600,439	7/15/1986	Schneider et al.	
	AT	4,615,897	10/7/1986	Brown et al.	
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	AY	4,738,724	4/19/1988	Wittwer et al	
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	ABA	4,828,841	5/9/1989	S. C. Porter	
	ABB	4,935,243	6/19/1990	Borkan et al.	
	ABC	5,089,307	2/18/1992	H. Ninomiya et al. -	
	ABD	5,146,730	9/15/1992	Sadek et al.	
	ABE	5,224,989	7/6/1993	Eva Likarova	
	ABF	5,334,640	8/2/1994	Desai et al.	
	ABG	5,342,626	8/30/1994	P. E. Winston, Jr. et al.	
	ABH	5,451,673	9/19/1995	Fishman et al.	
	ABI	5,484,598	1/16/1996	Schurig et al.	
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ABK	5,525,368	6/11/1996	Rha et al.		
ABL	5,550,178	8/27/1996	Desai et al.		
ABM	5,554,385	9/10/1996	N. Stroud		
ABN	5,587,412	12/24/1996	G. Bochers et al.		
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ABP	5,646,206	7/8/1997	D. R. Coffin et al.		
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ABR	5,672,699	9/30/1997	R. L. Billmers et al.		
ABS	5,726,008	3/10/1998	J. E. Maskasky		

Examiner Signature	<i>White</i>	Date Considered	2/27/2006
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ABT	5,804,243	9/8/1998	Loh et al.	
ABU	5,811,388	9/22/1998	Friend et al.	
ABV	5,817,323	10/6/1998	Hutchinson et al.	
ABW	5,932,639	8/3/1999	Eden et al.	
ABX	5,976,586	11/2/1999	L. Feller	
ABY	6,030,641	2/29/2000	Yamashita et al.	
ABZ	6,063,915	5/16/2000	Hansen et al.	
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ACB	6,143,324	11/7/2000	Michaud et al.	
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ACD	6,210,709	4/3/2001	Laba et al.	
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ACF	6,331,205	12/18/2001	L. Paris	
ACG	6,375,981	4/23/2002	G. M. Gilleland et al.	
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ACI	6,479,649	11/12/2002	Tsai et al.	
ACJ	6,517,865	2/11/2003	Cade et al.	
ACK	6,528,088	3/4/2003	Gilleland et al.	
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ACS	2005/0069579	3/31/2005	R. Kamaguchi et al.	
ACT	2005/0070703	3/31/2005	R. Muller et al.	
ACU	2005/0163833	7/28/2005	R. Muller	

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<i>A/</i>	BA	EP 0 169 319	1/29/1986	Berwind Pharmaceutical Services, Inc.		
<i>A/</i>	BB	EP 0 400 484	12/5/1990	Mitsubishi Rayon Co., LTD		
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<i>A/</i>	BH	EP 0 547 551	6/23/1993	National Search and Chemical Investment Holding Corporation		
<i>A/</i>	BI	EP 0 606 486	7/20/1994	Teijin Limited		
<i>A/</i>	BJ	EP 0 622 408	11/2/1994	CP Kelco ApS		
<i>A/</i>	BK	EP 0 633 896	1/18/1995	National Search and Chemical Investment Holding Corporation		
<i>A/</i>	BL	EP 0 761 691	3/12/1997	National Search and Chemical Investment Holding Corporation		

Examiner Signature	<i>E. White</i>	Date Considered	2/27/2006
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Substitute for form 1449A/B/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/824688-Conf. #8069		
		Filing Date	April 14, 2004		
		First Named Inventor	Christopher J. Sewall		
		Art Unit	N/A 1623		
		Examiner Name	Not Yet Assigned White		
Sheet	3	of	4	Attorney Docket Number	10884-00025-US

	BM	JP 5-4914	1/14/1993	Asahi Chemical Ind; Fuji Capsule KK	
	BN	JP 7-196478	8/1/1995	Sugii Hajime	
	BO	WO 94/25493	11/10/1994	The United States of America	
	BP	WO 97/49762	12/31/1997	Oy Polymer Corex Kuopio Ltd.	
	BQ	WO 99/07347	2/18/1999	Paris, Laurence	
	BR	WO 00/10538	3/2/2000	Banner Pharmacaps, Inc.	
	BS	WO 00/18835	4/6/2000	Warner-Lambert Company	
	BT	WO 01/37817	5/31/2001	Greither, Peter	
	BU	WO 01/91721	12/6/2001	A.E. Staley Manufacturing Co.	

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T ²
	CA	de Vries J., "Interaction of carrageenan with other ingredients in dairy dessert gels", Gums and stabilisers for the food industry 11: proceedings of the 11th conference, Wrexham, vol. 11 (2002), no. -, pages 201-210, July 2001		
	CB	R. Falshaw et al., "Structure and performance of commercial K-2 carrageenan extracts", Food Hydrocolloids, vol. 17, pages 129-139, 2003		
	CC	FMC BioPolymer, "Carrageenan Matrices for Entrapment", Issue No. 1, April 1993		
	CD	Henry J. Witt, "Carrageenan Nature's Most Versatile Hydrocolloid", pages 347-360, 1985		
	CE	Glicksman, M., "Gum Technology in the Food Industry", Academic Press, pages 213-228, 1969		
	CD	C. J. Lawson et al., "Carrageenans", J.C.S. Perkin I, pages 2177-2182, 1973		
	CE	H. J. Bixler, "Recent developments in manufacturing and marketing carrageenan", Hydrobiologia, pages 35-57, 1996		
	CF	M. C. Matulewicz et al., "Carrageenan Systems from Tetrasporic or Cystocarpic Stages of Gigartina Skottsbergii", Phytochemistry, vol. 28, pages 2937-2941, 1989		
	CG	M. C. Matulewicz et al., "Methylation Analysis of Carrageenans from Tetrasporic and Cystocarpic Stages of Gigartina Skottsbergii", Phytochemistry, vol. 29, no. 11, pages 3407-3410, 1990		
	CH	C. Rochas et al., "Relation Between the Molecular Structure and Mechanical Properties of Carrageenan Gels", Carbohydrate Polymers, vol. 10, pages 115-127, 1989		
	CI	Stancioff, D. J. and Stanley, N. F., "Infrared and Chemical Studies on Algal Polysaccharides", Prod. Intl. Seaweed Symp. 6, pages 595-609, 1969		
	CJ	Bellion, C. et al., "Analysis of Kappa-Iota Hybrid Carrageenans with Kappa-Carrageenase, Iota-Carrageenase and ¹³ C N.M.R., Xth International Seaweed Symposium, Walter de Gruyter & Co., Berlin-New York, pages 379-384, 1981		
	CK	Peats, S., "The Infrared Spectra of Carrageenans Extracted from Various Algae", Xth International Seaweed Symposium, Walter de Gruyter & Co., Berlin-New York, pages 495-502, 1981		
	CL	JP 5-4914 English language Abstract (espace.net)		
	CM	JP 7-196478 English language Abstract (European Patent Office)		
Examiner Signature	E. White		Date Considered	2/27/2006

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				Application Number	10/824688-Conf. #8069
				Filing Date	April 14, 2004
				First Named Inventor	Christopher J. Sewall
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
				Attorney Docket Number	10884-00025-US
Sheet	4	of	4		

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Substitute for form 1449A/B/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/824688-Conf. #8069
				Filing Date	April 14, 2004
				First Named Inventor	Christopher J. Sewall
				Art Unit	N/A 623
				Examiner Name	Not Yet Assigned White
Sheet	1	of	1	Attorney Docket Number	10884-00025-US

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
AA	AA*	US-2005/0089548	04-28-2005	Virgalitto et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

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